Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application.

Please amend the claims as follows.

Listing of Claims:

- 1.-2. (Canceled)
- (Currently amended) An isolated polynucleotide according to claim 20 or 21 comprising, sequences encoding at least two rW12 heavy chain CDRs, selected from the group of CDRs consisting of:

the complementary determining region-1 (CDR-1) sequence NYWMT (SEQ ID NO:1), the complementary determining region-2 (CDR-2) sequence SITSTGGTYHAESVKG (SEQ ID NO:2), and the complementary determining region-3 (CDR-3) sequence DDYGGOSTYVMDA (SEO ID

the complementary determining region-3 (CDR-3) sequence DDYGGQSTYVMDA (SEQ ID NO:3).

 (Currently amended) An isolated polynucleotide according to claim 20 or 21, comprising sequences encoding at least two rW12 light chain CDRs, selected from the group of CDRs-consisting of:

the complementary determining region-1 (CDR1) sequence RASQDIGNYLR (SEQ ID NO:4), the complementary determining region-2 (CDR2) sequence GATNLAA (SEQ ID NO:5), and the complementary determining region-3 (CDR3) sequence LHHSEYPYT (SEQ ID NO:6).

- 5-8. (Canceled)
- (Currently amended) An isolated expression vector comprising <u>a</u> first gene-for-the <u>nucleic acid sequence that encodes a</u> W12 heavy chain and <u>a</u> second-gene for the <u>nucleic acid</u> sequence that encodes a W12 light chain.

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- (Original) An isolated expression vector according to claim 9 wherein said light and heavy chains are chimeric or are humanized.
- 11. (Original) A host comprising said expression vector according to claim 9.
- 12. (Currently amended) An isolated first expression vector comprising a gene-for nucleic acid sequence that encodes a W12 heavy chain and an isolated second expression vector comprising a gene-for the nucleic acid sequence that encodes a W12 light chain.
- 13. (Currently amended) An isolated first and second expression vectors according to claim 12, wherein said genes-are-for nucleic acid sequences encode a chimeric or humanized WI2 light and heavy chain.
- 14. (Original) A host comprising said first and second expression vectors according to claim 12.
- 15. (Withdrawn) A method of stimulating an immune response in a patient against cancers expressing carcinoembryonic antigen, which comprises administering to said patient an effective amount of a vaccine comprising the humanized anti-idiotype antibody or antibody fragment encoded by the nucleic acid of claim 21, conjugated to a soluble immunogenic carrier protein, optionally in combination with a pharmaceutically acceptable vaccine adjuvant.
- 16. (Withdrawn-amended) In-a A method of diagnosis or treatment of a patient, wherein an antibody or antibody fragment that specifically binds CEA is used as a targeting, pre-targeting or therapy agent, either as such an unconjugated antibody or fragment or as a component of a conjugate,

the improvement wherein an anti-idiotype antibody encoded by the nucleic acid according to claim 21 is used to clear non-targeted antibody or antibody fragment that is not bound to CEA.

17. (Canceled)

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- 18. (Withdrawn) A method according to claim 16, wherein said anti-idiotype antibody or antibody fragment is labeled with a radiolabel, an enzyme, or a fluorescent agent.
- 19. (Withdrawn) A vaccine, comprising the humanized anti-idiotype antibody fragment encoded by the nucleic acid of claim 21, conjugated to a soluble immunogenic carrier protein, for use in stimulating an immune response in a patient against a cancer characterized by expression of CEA.
- 20. (Previously Presented) A nucleic acid encoding a chimeric anti-idiotype antibody or fragment thereof, wherein said antibody or fragment thereof specifically binds to the idiotype region of an anti-CEA monoclonal antibody comprising the rWI2 light chain and heavy chain variable regions.
- 21. (Previously Presented) A nucleic acid encoding a humanized anti-idiotype antibody or fragment thereof, wherein said antibody or fragment thereof specifically binds the idiotype region of an anti-CEA monoclonal antibody comprising rWI2 CDR regions-and humanized FR regions.
- 22. (New) A nucleic acid encoding an anti-idiotype antibody or fragment thereof, wherein said antibody or fragment thereof specifically binds the idiotype region of an anti-CEA monoclonal antibody comprising CDR-1 sequence NYWMT (SEQ ID NO:1), CDR-2 sequence SITSTGGTYHAESVKG (SEQ ID NO:2), CDR-3 sequence DDYGGQSTYVMDA (SEQ ID NO:3), CDR1 sequence RASQDIGNYLR (SEQ ID NO:4), CDR2 sequence GATNLAA (SEQ ID NO:5), and CDR3 sequence LHHSEYPYT (SEQ ID NO:6).